

137532

SEARCH REQUEST FORM Scientific and Technical Information Center - EIC2800
 Nov. 3/19/2004 This is an experimental format -- Please give suggestions or comments to Jeff Harrison, JEF-4B68, 272-2511.

Date <u>11/19/04</u>	Serial # <u>091993967</u>	Priority Application Date <u>2000.12.06</u>
Your Name <u>J. Harrison</u>	Examiner # _____	
AU <u>USPTO</u>	Phone <u>272-1838</u>	Room <u>5A30</u>
In what format would you like your results? Paper is the default.		<input checked="" type="radio"/> PAPER <input type="radio"/> DISK <input type="radio"/> EMAIL

If submitting more than one search, please prioritize in order of need:

Wanted before 11/25

The EIC searcher normally will contact you before beginning a prior art search. If you would like to sit with a searcher for an interactive search, please notify one of the searchers.

Where have you searched so far on this case?

11-10-04 A 09:22 IN

Circle: USPTO DWPI EPO Abs JPO Abs IBM TDB

Other: _____

What relevant art have you found so far? Please attach pertinent citations or Information Disclosure Statements. _____

What types of references would you like? Please checkmark:

Primary Refs <input checked="" type="checkbox"/>	Nonpatent Literature _____	Other _____
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What is the topic, such as the novelty, motivation, utility, or other specific facets defining the desired focus of this search? Please include the concepts, synonyms, keywords, acronyms, registry numbers, definitions, structures, strategies, and anything else that helps to describe the topic. Please attach a copy of the abstract and pertinent claims.

Claims 4,5,7,8,22,23,25,26-28

Problem: See pages 5 lines 1-2
Solution: 11 5-6

Scott

Please do an updated

search.

Staff Use Only	Type of Search	Vendors
Searcher: <u>Scott Hertray</u>	Structure (#) _____	STN <input checked="" type="checkbox"/>
Searcher Phone: <u>2-2663</u>	Bibliographic <input checked="" type="checkbox"/>	DIALOG <input checked="" type="checkbox"/>
Searcher Location: STIC-EIC2800, JEF-4B68	Litigation _____	Questel/Orbit _____
Date Searcher Picked Up: <u>11/18/04</u>	Fulltext <input checked="" type="checkbox"/>	Lexis-Nexis _____
Date Completed: <u>11/19/04</u>	Patent Family _____	WWW/Internet _____
Searcher Prep/Rev Time: <u>360</u>	Other _____	Other _____
Online Time: <u>59</u>		

SET ABB=ON PLU=ON
FILE 'HCAPLUS' ENTERED AT 13:34:10 ON 19 NOV 2004
L1 QUE STI OR TRENCH? OR GROOVE? OR ULSI OR
VERTICAL(2A) (DRAM# OR CAPACITOR? OR TRANSISTOR? OR MEMOR?)
L2 QUE MEMORY? OR MEMORIE? OR RAM? OR DRAM? OR
RDRAM? OR SDRAM? OR STOR#### OR REGISTER?
L3 QUE COLL!R? OR EXPAN#### OR INDENT#### OR
RECESS#### OR RECED#### OR RING## OR WIDE####
L4 QUE SECOND OR ADDITIONAL OR PLURAL#### OR
ANOTHER OR OTHER# OR MULTI OR MULTIPL? OR FURTHER? OR MORE
L5 QUE (CONNECT### OR STRAP#) (2A) (BURIE# OR
BURYING OR BURY### OR RECESS? OR BELOW OR UNDER? OR SA OR
SELF(W)ALIGN####)
L6 QUE BOTTOM# OR LOWER# OR UPPER# OR TOP# OR
UNDERSIDE# OR UNDER(W)SIDE#
L7 8 S L1 AND L2 AND L3 AND L4 AND L5 AND L6
L8 8 DUP REM L7 (0 DUPLICATES REMOVED)
L9 8 S L8
L10 0 S L9 NOT P/DT NOT PY>2000
L11 8 S L8
L12 8 S L11 AND P/DT

File 350:**Derwent WPIX** 1963-2004/UD,UM &UP=200474
 (c) 2004 Thomson Derwent
 File 344:**Chinese Patents Abs** Aug 1985-2004/May
 (c) 2004 European Patent Office
 File 347:**JAPIO** Nov 1976-2004/Jul (Updated 041102)
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 File 371:**French Patents** 1961-2002/BOPI 200209
 (c) 2002 INPI. All rts. reserv.
 File 383:**Ei EnCompassPat(TM)** (Ontap)
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Set	Items	Description
S1	626482	STI OR TRENCH? OR GROOVE? OR ULSI OR VERTICAL(2N) (DRAM? ? - OR CAPACITOR? OR TRANSISTOR? OR MEMOR?)
S2	2826246	MEMORY? OR MEMORIE? OR RAM? OR DRAM? OR RDRAM? OR SDRAM? OR STOR???? OR REGISTER?
S3	2014497	COLL?R? OR EXPAN???? OR INDENT???? OR RECESS???? OR RECED?- ??? OR RING?? OR WIDE?????
S4	6593743	SECOND OR ADDITIONAL OR PLURAL???? OR ANOTHER OR OTHER? ? - OR MULTI OR MULTIPL?
S5	25011	(CONNECT???? OR STRAP? ?)(2N) (BURIE? ? OR BURYING OR BURY?- ?? OR RECESS? OR BELOW OR UNDER? OR SA OR SELF(W)ALIGN????)
S6	3398331	BOTTOM? ? OR LOWER? ? OR UPPER? ? OR TOP? ? OR UNDERSIDE? ? OR UNDER(W)SIDE? ?
S7	61	S1 AND S2 AND S3 AND S4 AND S5 AND S6
S8	1338499	SEMICOND? OR IC OR INTEG?(N)CIRCUIT? OR ICS
S9	31	S7 AND S8
S10	31	IDPAT (sorted in duplicate/non-duplicate order)
S11	31	IDPAT (primary/non-duplicate records only)
S12	21264	AU=(YAMADA, T? OR YAMADA T?)
S13	439	AU=(KAJIYAMA T? OR KAJIYAMA, T?)
S14	3	S12 AND S13
S15	3	S14 NOT S11

File 2:INSPEC 1969-2004/Jul W4
(c) 2004 Institution of Electrical Engineers
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(c) 2004 Contains copyrighted material
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(c) 2004 Inst for Sci Info
File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec
(c) 1998 Inst for Sci Info

Set	Items	Description
S1	149903	STI OR TRENCH? OR GROOVE? OR ULSI OR VERTICAL(2N) (DRAM? ? - OR CAPACITOR? OR TRANSISTOR? OR MEMOR?)
S2	3132232	MEMORY? OR MEMORIE? OR RAM? OR DRAM? OR RDRAM? OR SDRAM? OR STOR???? OR REGISTER?
S3	3769549	COLL?R? OR EXPAN???? OR INDENT???? OR RECESS???? OR RECED?-??? OR RING?? OR WIDE?????
S4	16531928	SECOND OR ADDITIONAL OR PLURAL???? OR ANOTHER OR OTHER? ? - OR MULTI OR MULTIPL? OR FURTHER? OR MORE
S5	9324	(CONNECT???? OR STRAP? ?)(2N) (BURIE? ? OR BURYING OR BURY?-?? OR RECESS? OR BELOW OR UNDER? OR SA OR SELF(W)ALIGN????)
S6	3525113	BOTTOM? ? OR LOWER? ? OR UPPER? ? OR TOP? ? OR UNDERSIDE? ? OR UNDER(W)SIDE? ?
S7	0	S1 AND S2 AND S3 AND S4 AND S5 AND S6
S8	4	S1 AND S2 AND S3 AND S4 AND S5
S9	4	RD (unique items)
S10	4	S9 NOT PY>2000
S11	678145	S1:S6 AND SEMICOND?
S12	16488	S11 AND S1
S13	1952	S11 AND S1 AND S3
S14	11907868	SECOND OR ADDITIONAL OR PLURAL???? OR ANOTHER OR OTHER? ? - OR MULTI OR MULTIPL?
S15	450	S11 AND S1 AND S3 AND S14
S16	0	S11 AND S1 AND S3 AND S14 AND S5
S17	74	S11 AND S1 AND S3 AND S14 AND S6
S18	14	S17 AND S2
S19	4	S18 NOT S10 NOT PY>2000

File 348: **EUROPEAN PATENTS** 1978-2004/Nov W01

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File 349: **PCT FULLTEXT** 1979-2002/UB=20041118,UT=20041111

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Set	Items	Description
S1	200432	STI OR TRENCH? OR GROOVE? OR ULSI OR (UPRIGHT? OR VERTICAL OR VERT) (2N) (DRAM? ? OR CAPACITOR? OR TRANSISTOR? OR MEMOR?)
S2	71414	MEMORY? OR MEMORIE? OR RAM OR RAMS OR DRAM? OR RDRAM? OR S-DRAM? OR STOR???? OR REGISTER?
S3	150949	COLL?R? OR EXPAN???? OR INDENT???? OR RECESS???? OR RECED?-??? OR RING?? OR WIDE?????
S4	190552	SECOND OR ADDITIONAL OR PLURAL???? OR ANOTHER OR OTHER? ? - OR MULTI OR MULTIPL? OR FURTHER? OR MORE
S5	8210	(CONNECT???? OR STRAP? ?) (2N) (BURIE? ? OR BURYING OR BURY?-?? OR RECESS? OR BELOW OR UNDER? OR SA OR SELF(W)ALIGN????)
S6	158200	BOTTOM? ? OR LOWER? ? OR UPPER? ? OR TOP? ? OR UNDERSIDE? ? OR UNDER(W)SIDE? ?
S7	66	S1(10N)S2(10N)S3(10N)S4(10N)S5(10N)S6
S8	66	IDPAT (sorted in duplicate/non-duplicate order)
S9	66	IDPAT (primary/non-duplicate records only)
S10	0	S9 AND AC=(WO OR US) (S)AD<20001206
S11	3	S9 AND AC=(WO OR US) (S)AD=19820403:20001206
S12	3	S9 AND AC=(WO OR US) (S)AD=19871103:20001206
S13	33	S9 AND AC=(WO OR US) (S)AD=19930323:20001206
S14	18	S9 AND AC=(WO OR US) (S)AD=19980719:20001206
S15	43	S9 AND PD<20001206
S16	30	S9 AND PD=19990113:20001206
S17	57	S10:S16
S18	17	S4(10N)S2(10N) (S3(5N)S1) (10N)S5(10N)S6